

## CLAIMS

What is claimed is:

- 1 1. A process for forming a cured fluoroelastomer film comprising the steps of:  
2 providing a fluoroelastomer latex;  
3 adding an organic peroxide curing agent and coagent to the latex to  
4 form a curable coating composition;  
5 forming a film with the curable coating composition; and  
6 curing the film at elevated temperature.
- 1 2. The process of claim 1, where the organic peroxide curing agent is a dialkyl  
2 peroxide, peroxyester, diacyl peroxide, ketone peroxide, peroxydicarbonate,  
3 hydroperoxide, peroxyketal, or mixture thereof.
- 1 3. The process of claim 2, where the dialkyl peroxide curing agent is a dicumyl  
2 peroxide, 2,5-dimethyl-2,5-di-(*t*-butylperoxy)hexane, *t*-butyl cumyl peroxide,  $\alpha,\alpha'$ -  
3 bis(*t*-butylperoxy)diisopropylbenzene, di-*t*-butyl peroxide, 2,5-dimethyl-2,5-di-(*t*-  
4 butylperoxy)hexyne-3, or a mixture thereof.
- 1 4. The process of claim 2, where the peroxyester curing agent is  $\alpha$ -cumyl peroxy-  
2 neodecanoate, 1,1-dimethyl-3-hydroxy-butyl peroxyneodecanoate,  $\alpha$ -cumyl  
3 peroxy-heptanoate, *t*-amyl peroxyneodecanoate, *t*-amyl peroxy-pivalate, *t*-butyl  
4 peroxyneodecanoate, *t*-butyl peroxy-pivalate, 1,1-dimethyl-3-hydroxy-butyl peroxy  
5 2-ethylhexanoate, 2,5-dimethyl 2,5 di(2-ethylhexanoylperoxy)hexane, *t*-amyl  
6 peroxy 2-ethylhexanoate, *t*-butyl peroxy 2-ethylhexanoate, *t*-butyl peroxy  
7 isobutyrate, *t*-butyl peroxyacetate, *t*-amyl peroxyacetate, *t*-butyl perbenzoate, *t*-  
8 amyl perbenzoate, di-*t*-butyl diperoxyphthalate, oo-*t*-butyl o-isopropyl  
9 monoperoxycarbonate, 2,5-dimethyl 2,5-di(benzoylperoxy)hexane, oo-*t*-butyl 1-(2-  
10 ethylhexyl)monoperoxycarbonate, oo-*t*-amyl o-(2-ethylhexyl)  
11 monoperoxycarbonate, or a mixture thereof.
- 1 5. The process of claim 2, where the diacylperoxide curing agent is  
2 diisononanoyl peroxide, decanoyl peroxide, lauroyl peroxide, succinic acid

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1 15. The process of claim 1, where said step of adding an organic peroxide curing  
2 agent includes adding from about 1 to about 10 parts by weight net curing agent  
3 per 100 parts by weight fluoroelastomer.

1     20. A fluoroelastomer film prepared by the steps comprising:  
2             providing a fluoroelastomer latex;

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- 3 adding an organic peroxide curing agent and coagent to the latex to
- 4 form a curable coating composition;
- 5 forming a film with the curable coating composition; and
- 6 curing the film at elevated temperature.

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